UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P. D. Rey 1459

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

47394 7590 HITT GAINES, PC ALCATEL-LUCENT PO BOX 832570 RICHARDSON TX 75083 04/11/2008

EXAMINER BRUCKART, BENJAMIN R

ART UNIT PAPER NUMBER

2146

DATE MAILED: 04/11/2008

 APPLICATION NO.
 FILINO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKIET NO.
 CONFRMATION NO.

 10672_535
 69/26/2003
 Yiral Bejerano
 Y.BEJIERANO
 3739

APPLY, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEES) DUE DATE DUE

TITLE OF INVENTION: SYSTEM AND METHOD FOR PROVISIONING QOS PATHS WITH RESTORATION IN A NETWORK $^{49-1}$

 ACTELN. 11 FE
 SMALL ENTIT
 ISSUE FEE DOE
 FOREAGING FEE DOE
 FREV. FAID ISSUE FEE
 TOTAL FEE STORE
 DATE DOE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 07/11/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions.	ng the Pater nerwise in E	nt, advance of Block 1, by (a	rders and notification a) specifying a new c	of n	naintenance fees v pondence address	vill be and/or	mailed to the current (b) indicating a sepa	corr	spondence address as "FEE ADDRESS" for	
CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.									
47394 HITT GAINES ALCATEL-LUC PO BOX 832570		There is own central or influency of maninassions. I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (27) 173-2886, on the date indicated below.									
RICHARDSON	, TX 75083									(Depositor's name)	
					┕					(Signature)	
					L					(Date)	
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	ATTORNEY DOCKET NO. COM			ONFIRMATION NO.			
10/672,535 TITLE OF INVENTION	09/26/2003 SYSTEM AND METE	IOD FOR P	ROVISIONI	Yigal Bejerano NG QOS PATHS WIT	H RI	ESTORATION IN		Y.BEJERANO WIÓRK ⁴⁹⁻¹		3739	
APPLN, TYPE	SMALL ENTITY	SMALL ENTITY ISSUE FEE D		PUBLICATION FEE I	OUE	PREV. PAID ISSUE FEE		TOTAL FEE(S) DUE	Т	DATE DUE	
nonprovisional	NO		1440	\$300		\$0		\$1740		07/11/2008	
EXAM	EXAMINER		UNIT	CLASS-SUBCLASS	3						
BRUCKART,		_	146	709-241000							
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignce is ident h in 37 CFR 3.11. Comp	nge of Corn "Indication ed. Use of a	form Customer		ap to rnativ single or attor II be por or typ he pa	3 registered pater ely, 2 firm (having as a gent) and the nam neys or agents. If printed. e) tent. If an assign assignment.	memb es of u no nam	er a 2p to p to e is 3	œum	ent has been filed for	
Please check the appropr	iate assignee category or	categories ((will not be pr	inted on the patent):	۵	Individual 🚨 Co	orporati	on or other private gro	up e	ntity Government	
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Depoid Account Number (enclose an extra copy of this form).							
	s SMALL ENTITY state	is. See 37 C						ITTY status. See 37 Cl			
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	tes Patent a	nd Trademark	Office.	nan U	ie applicant; a regi	stered a	morney or agent; or tr	e ass	iguee or outer party in	
Authorized Signature				Date							
Typed or printed name				Registration No.							
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but (irginia 22313-1450. DC k13-1450.	FR 1.311. 7 U.S.C. 122 USPTO. T rden, should NOT SEN	The information and 37 CFR ime will vary be sent to the D FEES OR	on is required to obtain 1.14. This collection is depending upon the e Chief Information C COMPLETED FORM	n or n is esti indiv Office IS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he publ minutes omment Traden S. SENI	tic which is to file (and to complete, including s on the amount of tire ark Office, U.S. Deptor of the Commissioner of the Co	by t g gat ne yo artme for P.	he USPTO to process) hering, preparing, and ou require to complete int of Commerce, P.O. atents, P.O. Box 1450,	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,535		09/26/2003	Yigal Bejerano	Y.BEJERANO 3-16-1-49-1	3739	
47394	7590	04/11/2008		EXAMINER		
HITT GAIN	IES, PC			BRUCKART, BENJAMIN R		
ALCATEL-L				ART UNIT	PAPER NUMBER	
PO BOX 832 RICHARDSO		5083		2146 DATE MAII ED: 04/11/200	18	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 985 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 985 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/672,535	BEJERANO ET AL.
Examiner	Art Unit
BEN IAMIN B BRITCKART	2146

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.

This communication is responsive to the request for consideration filed 3/14/08.

2.

The allowed claim(s) is/are renumbered claims 1-21.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

Application/Control Number: 10/672,535

Art Unit: 2146

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1, 8 and 15 among other things teach 'a system and method for provisioning restoration paths in a computer network environment with a primary path generator identifying a primary path for normal network use; an auxiliary graph generator constructing a directed auxiliary graph from an undirected graph by reversing each link in the primary path and replacing each other link that is not in the primary path by two direct links; a walk identifier configured to talk the auxiliary directed graph with bridges; and a bridge identifier decomposing said walk into bridges, each protecting a different portion of the primary path making a restoration path. Both the restoration path and primary path meet the quality requirements.' The quality of service constraints ranging from bandwidth, cost and delay. The invention seeks to keep these measurements at a minimum in a restoration path.

The prior art does not teach the cited limitation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/672,535

Art Unit: 2146

CORRESPONDANCE INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R. Bruckart whose telephone number is (571) 272-3982. The examiner can normally be reached on 9:00-5:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Pwu can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin R Bruckart Examiner Art Unit 2146

/Benjamin R Bruckart/ Examiner, Art Unit 2146

/Jeffrey Pwu/ Supervisory Patent Examiner, Art Unit 2146